

TDMS No. 88123 - 07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
FORMAMIDE
CAS Number: 75-12-7
Pathologist: RYAN, M. - Blackshear, P.
F1_M3

Date Report Reqsted: 05/04/2006
Time Report Reqsted: 11:47:08
First Dose M/F: 10/04/01 / 10/03/01
Lab: BAT

C Number: C88123B
Lock Date: 05/24/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	4	8	6	14
Natural Death	7		8	3
Survivors				
Terminal Sacrifice	39	42	36	33
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic			1 (2%)	
Muscularis, Inflammation, Chronic	1 (2%)			
Gallbladder	(45)	(48)	(45)	(46)
Cyst		1 (2%)		
Inflammation, Chronic		1 (2%)	1 (2%)	3 (7%)
Ulcer				1 (2%)
Epithelium, Cytoplasmic Alteration		1 (2%)		2 (4%)
Epithelium, Hyperplasia		1 (2%)	2 (4%)	
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Edema		1 (2%)		
Hemorrhage			1 (2%)	
Artery, Inflammation, Chronic			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Hemorrhage			1 (2%)	
Artery, Inflammation, Chronic	1 (2%)			
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic		1 (2%)		
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic	1 (2%)			
Epithelium, Hyperplasia, Focal				1 (2%)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Inflammation, Granulomatous		1 (2%)		
Inflammation, Chronic				1 (2%)
Peyer's Patch, Hyperplasia, Lymphoid	2 (4%)			1 (2%)
Liver	(50)	(50)	(50)	(50)

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Angiectasis			1 (2%)	
Basophilic Focus	2 (4%)	4 (8%)	3 (6%)	4 (8%)
Clear Cell Focus	29 (58%)	27 (54%)	21 (42%)	8 (16%)
Eosinophilic Focus	16 (32%)	21 (42%)	14 (28%)	9 (18%)
Fatty Change	31 (62%)	25 (50%)	15 (30%)	1 (2%)
Fibrosis				1 (2%)
Hematopoietic Cell Proliferation	1 (2%)			
Hepatodiaphragmatic Nodule				1 (2%)
Inflammation, Acute	1 (2%)			1 (2%)
Inflammation, Chronic	16 (32%)	16 (32%)	11 (22%)	15 (30%)
Mineralization	1 (2%)	1 (2%)		
Mixed Cell Focus	10 (20%)	12 (24%)	13 (26%)	11 (22%)
Necrosis	5 (10%)	9 (18%)	7 (14%)	11 (22%)
Tension Lipidosis	4 (8%)	5 (10%)	1 (2%)	6 (12%)
Bile Duct, Dilatation		1 (2%)		
Bile Duct, Hyperplasia		1 (2%)		
Centrilobular, Degeneration	1 (2%)			
Centrilobular, Necrosis	1 (2%)			1 (2%)
Serosa, Hyperplasia		1 (2%)		
Vein, Thrombosis				1 (2%)
Mesentery	(3)	(1)	(1)	(1)
Inflammation, Chronic	1 (33%)			
Artery, Inflammation, Chronic	1 (33%)		1 (100%)	
Fat, Necrosis	1 (33%)	1 (100%)		
Oral Mucosa	(7)	(5)	(5)	(7)
Inflammation, Chronic				1 (14%)
Gingival, Inflammation, Chronic	7 (100%)	5 (100%)	5 (100%)	6 (86%)
Pancreas	(50)	(50)	(50)	(50)
Acinus, Atrophy	1 (2%)	3 (6%)		2 (4%)
Acinus, Cytoplasmic Alteration		1 (2%)	1 (2%)	1 (2%)
Duct, Cyst			1 (2%)	1 (2%)
Duct, Inflammation, Chronic		1 (2%)		
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation, Granulomatous	1 (2%)			
Artery, Parotid Gland, Inflammation, Chronic			1 (2%)	
Artery, Parotid Gland, Mineralization			1 (2%)	1 (2%)
Parotid Gland, Atrophy				1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Hemorrhage			1 (2%)	
Inflammation, Chronic	1 (2%)			
Ulcer	1 (2%)		1 (2%)	1 (2%)

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Artery, Inflammation, Chronic	1 (2%)			
Epithelium, Hyperplasia, Focal	1 (2%)		1 (2%)	
Epithelium, Vacuolization Cytoplasmic		1 (2%)		
Stomach, Glandular	(50)	(50)	(50)	(50)
Hemorrhage, Acute		1 (2%)		
Inflammation, Chronic			4 (8%)	1 (2%)
Mineralization			1 (2%)	
Ulcer			1 (2%)	3 (6%)
Epithelium, Glands, Ectasia		1 (2%)		
Epithelium, Glands, Hyperplasia, Focal			1 (2%)	
Epithelium, Hyperplasia, Focal		1 (2%)		
Glands, Ectasia		1 (2%)	2 (4%)	2 (4%)
Tooth	(15)	(14)	(9)	(2)
Dysplasia	2 (13%)	1 (7%)	2 (22%)	
Malformation	14 (93%)	13 (93%)	7 (78%)	2 (100%)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(50)	(50)	(50)
Aorta, Inflammation, Chronic	1 (2%)			
Heart	(50)	(50)	(50)	(50)
Thrombosis				1 (2%)
Artery, Inflammation, Chronic	1 (2%)	1 (2%)	2 (4%)	
Atrium, Thrombosis	1 (2%)	1 (2%)		3 (6%)
Epicardium, Hyperplasia	1 (2%)			
Epicardium, Infiltration Cellular, Mononuclear Cell	1 (2%)			
Myocardium, Infiltration Cellular, Mononuclear Cell	9 (18%)	10 (20%)	2 (4%)	12 (24%)
Myocardium, Mineralization			2 (4%)	2 (4%)
Myocardium, Necrosis	3 (6%)	1 (2%)	1 (2%)	4 (8%)
Myocardium, Necrosis, Focal		1 (2%)		
Nerve, Inflammation, Chronic				1 (2%)
Ventricle, Atrophy			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(50)
Angiectasis		1 (2%)	1 (2%)	1 (2%)
Hyperplasia	2 (4%)			2 (4%)

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Hypertrophy	15 (30%)	17 (34%)	17 (35%)	13 (26%)
Pigmentation	1 (2%)			2 (4%)
Vacuolization Cytoplasmic				1 (2%)
Vacuolization Cytoplasmic, Focal	17 (34%)	14 (28%)	11 (22%)	16 (32%)
Subcapsular, Hyperplasia	50 (100%)	49 (98%)	42 (86%)	45 (90%)
Subcapsular, Hypertrophy, Focal	1 (2%)			
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia, Focal	2 (4%)	1 (2%)	1 (2%)	3 (6%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	35 (70%)	24 (48%)	24 (48%)	9 (18%)
Parathyroid Gland	(43)	(39)	(46)	(47)
Right, Atrophy				1 (2%)
Pituitary Gland	(50)	(50)	(50)	(49)
Angiectasis	1 (2%)			
Cyst	5 (10%)	2 (4%)	2 (4%)	2 (4%)
Pars Distalis, Hyperplasia, Focal	3 (6%)	4 (8%)	1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)
Cyst	2 (4%)	3 (6%)	2 (4%)	5 (10%)
Inflammation, Granulomatous	1 (2%)			
Inflammation, Chronic		1 (2%)		1 (2%)
C-cell, Hyperplasia				1 (2%)
Follicle, Hyperplasia	1 (2%)			
Follicle, Hyperplasia, Focal	12 (24%)	15 (30%)	8 (16%)	8 (16%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 (2%)	1 (2%)		3 (6%)
Inflammation, Chronic	1 (2%)			1 (2%)
Artery, Inflammation, Chronic		1 (2%)		
Preputial Gland	(50)	(50)	(50)	(50)
Cyst	19 (38%)	11 (22%)	11 (22%)	10 (20%)
Infiltration Cellular, Lymphoid			1 (2%)	
Infiltration Cellular, Chronic				1 (2%)
Inflammation, Suppurative				1 (2%)
Inflammation, Granulomatous	1 (2%)	1 (2%)		

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Inflammation, Chronic	1 (2%)	4 (8%)		1 (2%)
Duct, Cyst		1 (2%)		
Prostate	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphoid			1 (2%)	
Inflammation, Suppurative	1 (2%)	1 (2%)		1 (2%)
Inflammation, Chronic		1 (2%)	1 (2%)	
Seminal Vesicle	(50)	(50)	(50)	(50)
Atrophy				2 (4%)
Fibrosis	1 (2%)		1 (2%)	
Inflammation, Suppurative	1 (2%)			
Inflammation, Chronic		1 (2%)		
Testes	(50)	(50)	(50)	(50)
Granuloma Sperm				1 (2%)
Artery, Inflammation, Chronic	1 (2%)		1 (2%)	
Artery, Mineralization		2 (4%)	5 (10%)	35 (70%)
Artery, Thrombosis			1 (2%)	
Germinal Epithelium, Degeneration	1 (2%)	4 (8%)	1 (2%)	4 (8%)
Germinal Epithelium, Inflammation, Chronic				1 (2%)
Germinal Epithelium, Mineralization		1 (2%)	1 (2%)	
Tunic, Inflammation, Chronic	1 (2%)			1 (2%)
Tunic, Mineralization	1 (2%)		5 (10%)	27 (54%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	34 (68%)	39 (78%)	35 (70%)	34 (68%)
Lymph Node	(4)	(2)	(1)	(1)
Bronchial, Hyperplasia, Lymphoid	1 (25%)			
Lumbar, Hyperplasia, Lymphoid	1 (25%)			
Mediastinal, Hyperplasia, Lymphoid	2 (50%)			
Pancreatic, Hyperplasia		1 (50%)		
Renal, Hyperplasia, Lymphoid	2 (50%)			
Lymph Node, Mandibular	(49)	(48)	(49)	(48)
Atrophy	11 (22%)	5 (10%)	6 (12%)	13 (27%)
Hematopoietic Cell Proliferation	1 (2%)			
Hyperplasia, Lymphoid	2 (4%)	5 (10%)	5 (10%)	2 (4%)
Necrosis, Lymphoid	2 (4%)			1 (2%)
Lymph Node, Mesenteric	(50)	(47)	(50)	(49)
Atrophy	10 (20%)	3 (6%)	6 (12%)	14 (29%)
Hyperplasia, Lymphoid	4 (8%)	1 (2%)	4 (8%)	
Necrosis, Lymphoid	1 (2%)		1 (2%)	1 (2%)

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Spleen	(50)	(50)	(50)	(50)
Atrophy	2 (4%)	6 (12%)	3 (6%)	7 (14%)
Hematopoietic Cell Proliferation	14 (28%)	14 (28%)	20 (40%)	28 (56%)
Hyperplasia, Plasma Cell	1 (2%)			
Lymphoid Follicle, Hyperplasia	4 (8%)	1 (2%)	4 (8%)	
Lymphoid Follicle, Necrosis	1 (2%)			
Thymus	(47)	(46)	(50)	(46)
Atrophy	41 (87%)	39 (85%)	37 (74%)	44 (96%)
Cyst	19 (40%)	9 (20%)	15 (30%)	9 (20%)
Ectopic Parathyroid Gland			1 (2%)	
Hyperplasia, Lymphoid	1 (2%)		2 (4%)	
Necrosis	1 (2%)			
Epithelial Cell, Hyperplasia			1 (2%)	
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Ulcer				3 (6%)
Subcutaneous Tissue, Edema				1 (2%)
Subcutaneous Tissue, Inflammation, Chronic	1 (2%)			
Subcutaneous Tissue, Necrosis			1 (2%)	
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Hyperostosis	1 (2%)	2 (4%)	2 (4%)	3 (6%)
Cranium, Hyperplasia		1 (2%)		
Skeletal Muscle	(1)	(1)	(0)	(2)
Inflammation, Granulomatous	1 (100%)			
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	1 (2%)			
Cyst Epithelial Inclusion	1 (2%)			
Hemorrhage, Acute		1 (2%)		
Hydrocephalus	1 (2%)			
Necrosis		1 (2%)		
Artery, Inflammation, Chronic		1 (2%)	1 (2%)	
Meninges, Ventricle, Inflammation,	1 (2%)			

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Granulomatous Meninges, Infiltration Cellular, Lymphocyte Vein, Infiltration Cellular, Mononuclear Cell Peripheral Nerve Axon, Degeneration Spinal Cord Hemorrhage	(0) (0)	1 (2%) 1 (2%) (0) (0)	 (1) 1 (100%) (1) 1 (100%)	 (0) (0)
RESPIRATORY SYSTEM				
Lung Fibrosis Inflammation, Chronic Metaplasia, Osseous Alveolar Epithelium, Hyperplasia Alveolus, Infiltration Cellular, Histocyte Arteriole, Thrombosis Artery, Mineralization Bronchus, Hypertrophy Serosa, Inflammation, Chronic Nose Inflammation, Suppurative Inflammation, Chronic Polyp, Inflammatory Glands, Hyperplasia Glands, Hyperplasia, Focal Glands, Inflammation, Suppurative Nasolacrimal Duct, Infiltration Cellular, Polymorphonuclear Nasopharyngeal Duct, Inflammation, Chronic Olfactory Epithelium, Amyloid Deposition Olfactory Epithelium, Atrophy, Focal Olfactory Epithelium, Metaplasia Olfactory Epithelium, Metaplasia, Focal Respiratory Epithelium, Atrophy, Focal Respiratory Epithelium, Hyperplasia, Focal Respiratory Epithelium, Metaplasia, Squamous Vomeronasal Organ, Infiltration Cellular, Polymorphonuclear Pleura	(50) 1 (2%) 2 (4%) 1 (2%) 1 (2%) 1 (2%) 1 (2%) (50) 4 (8%) 1 (2%) 1 (2%) 1 (2%) 1 (2%) 4 (8%) 2 (4%) 1 (2%) 8 (16%) 1 (2%) 1 (2%) 2 (4%) 5 (10%) 1 (2%) 5 (10%) 1 (2%) 1 (2%) 2 (4%) 1 (2%) 1 (2%) 2 (4%) 1 (2%) 2 (4%) (1)	(50) 1 (2%) (50) 4 (8%) 2 (4%) 1 (2%) 1 (2%) 5 (10%) 1 (2%) 2 (4%) 1 (2%) 1 (2%) 10 (20%) (0)	(50) 3 (6%) 2 (4%) 4 (8%) 1 (2%) (50) 1 (2%) 1 (2%) 1 (2%) 1 (2%) 1 (2%) 2 (4%) 1 (2%) 1 (2%) 3 (6%) (0)	(50) 1 (2%) 2 (4%) 8 (16%) (50) 1 (2%) 1 (2%) 1 (2%) 2 (4%) 1 (2%) 2 (4%) 1 (2%) 2 (4%) 4 (8%) (0)

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B6C3F1 MICE MALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Hyperplasia	1 (100%)			
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Degeneration				1 (2%)
Anterior Chamber, Inflammation, Suppurative				1 (2%)
Cornea, Inflammation, Chronic	3 (6%)		2 (4%)	1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia, Focal	4 (8%)	8 (16%)	5 (10%)	10 (20%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Casts Protein	1 (2%)			
Fibrosis, Focal			1 (2%)	
Infarct	1 (2%)	1 (2%)	3 (6%)	
Inflammation, Suppurative				1 (2%)
Inflammation, Chronic		2 (4%)		1 (2%)
Metaplasia, Osseous	1 (2%)	1 (2%)	3 (6%)	4 (8%)
Mineralization	16 (32%)	15 (30%)	2 (4%)	5 (10%)
Necrosis				1 (2%)
Nephropathy	43 (86%)	46 (92%)	41 (82%)	45 (90%)
Artery, Inflammation, Chronic	2 (4%)	1 (2%)	1 (2%)	
Glomerulus, Inflammation, Chronic	1 (2%)			
Glomerulus, Necrosis, Fibrinoid	1 (2%)			
Papilla, Necrosis	1 (2%)			
Pelvis, Inflammation, Suppurative	1 (2%)			2 (4%)
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)			
Renal Tubule, Cyst	8 (16%)	5 (10%)	4 (8%)	5 (10%)
Renal Tubule, Hyperplasia	1 (2%)	2 (4%)	5 (10%)	1 (2%)
Renal Tubule, Mineralization			1 (2%)	
Vein, Infiltration Cellular, Lymphocyte		1 (2%)		
Urinary Bladder	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphoid	1 (2%)		1 (2%)	
Inflammation, Suppurative	1 (2%)			
Inflammation, Chronic		2 (4%)		1 (2%)
Artery, Inflammation, Chronic	1 (2%)		1 (2%)	
Artery, Mineralization	1 (2%)			

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Transitional Epithelium, Hyperplasia	1 (2%)			

*** END OF MALE ***

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B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Dosing Accident			1	
Moribund Sacrifice	7	8	8	8
Natural Death	5	3	10	3
Survivors				
Natural Death		1		
Terminal Sacrifice	38	38	31	39
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Inflammation, Suppurative			1 (2%)	
Perforation			1 (2%)	
Gallbladder	(47)	(45)	(46)	(49)
Cyst	1 (2%)			
Inflammation, Chronic	1 (2%)			
Epithelium, Cytoplasmic Alteration				1 (2%)
Intestine Large, Cecum	(49)	(50)	(50)	(50)
Edema	1 (2%)			
Lymphoid Tissue, Hyperplasia, Lymphoid			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Serosa, Inflammation, Chronic			1 (2%)	
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)			
Epithelium, Hyperplasia, Focal	1 (2%)			
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Epithelium, Cyst	1 (2%)			
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Artery, Peyer's Patch, Mineralization			1 (2%)	
Epithelium, Hyperplasia, Focal				1 (2%)
Liver	(50)	(50)	(50)	(50)
Angiectasis			2 (4%)	
Basophilic Focus			1 (2%)	2 (4%)
Clear Cell Focus	3 (6%)	2 (4%)	2 (4%)	2 (4%)

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B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Eosinophilic Focus	12 (24%)	15 (30%)	8 (16%)	7 (14%)
Fatty Change	6 (12%)	7 (14%)	4 (8%)	2 (4%)
Hematopoietic Cell Proliferation	3 (6%)	4 (8%)	1 (2%)	1 (2%)
Infarct			1 (2%)	
Inflammation, Chronic	29 (58%)	27 (54%)	21 (42%)	21 (42%)
Mineralization				1 (2%)
Mixed Cell Focus	4 (8%)	5 (10%)	4 (8%)	6 (12%)
Necrosis	1 (2%)			2 (4%)
Tension Lipidosis	3 (6%)	9 (18%)	5 (10%)	6 (12%)
Centrilobular, Necrosis			1 (2%)	
Centrilobular, Vacuolization Cytoplasmic	1 (2%)			
Mesentery	(8)	(3)	(8)	(2)
Fat, Necrosis	5 (63%)	3 (100%)	8 (100%)	2 (100%)
Oral Mucosa	(1)	(0)	(0)	(0)
Gingival, Inflammation, Chronic	1 (100%)			
Pancreas	(49)	(49)	(50)	(50)
Hyperplasia, Lymphoid			1 (2%)	
Inflammation, Chronic			2 (4%)	
Acinus, Atrophy		1 (2%)	3 (6%)	2 (4%)
Acinus, Cytoplasmic Alteration	1 (2%)			1 (2%)
Artery, Thrombosis			1 (2%)	
Duct, Cyst			1 (2%)	3 (6%)
Duct, Cytoplasmic Alteration				1 (2%)
Duct, Inflammation, Chronic	1 (2%)		1 (2%)	
Salivary Glands	(49)	(50)	(50)	(50)
Atrophy, Diffuse				1 (2%)
Parotid Gland, Atrophy		1 (2%)	1 (2%)	
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)			
Epithelium, Hyperplasia	1 (2%)			1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)	1 (2%)		1 (2%)
Ulcer		1 (2%)		
Epithelium, Glands, Cytoplasmic Alteration	1 (2%)			1 (2%)
Epithelium, Glands, Hyperplasia				1 (2%)
Glands, Ectasia	1 (2%)			
Glands, Hyperplasia	1 (2%)			
Tooth	(0)	(0)	(0)	(1)
Malformation				1 (100%)

TDMS No. 88123 - 07
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: RYAN, M. - Blackshear, P.

Date Report Requested: 05/04/2006
 Time Report Requested: 11:47:08
 First Dose M/F: 10/04/01 / 10/03/01
 Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic	2 (4%)			
Atrium, Thrombosis			1 (2%)	1 (2%)
Coronary Artery, Inflammation, Chronic	1 (2%)			
Myocardium, Infiltration Cellular, Mononuclear Cell	2 (4%)	7 (14%)	4 (8%)	3 (6%)
Myocardium, Mineralization		3 (6%)	1 (2%)	
Myocardium, Necrosis			1 (2%)	
Ventricle, Thrombosis				1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(49)	(50)	(49)	(50)
Angiectasis		1 (2%)		
Atrophy				1 (2%)
Hematopoietic Cell Proliferation	1 (2%)	1 (2%)		
Hyperplasia		2 (4%)		1 (2%)
Hypertrophy	1 (2%)	1 (2%)	4 (8%)	
Pigmentation		3 (6%)		
Vacuolization Cytoplasmic, Focal	3 (6%)		2 (4%)	
Subcapsular, Hyperplasia	49 (100%)	49 (98%)	48 (98%)	49 (98%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Angiectasis		1 (2%)		
Hyperplasia, Focal	1 (2%)	4 (8%)	1 (2%)	2 (4%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)	1 (2%)	4 (8%)	
Parathyroid Gland	(42)	(32)	(35)	(42)
Cyst	1 (2%)			2 (5%)
Pituitary Gland	(50)	(50)	(49)	(50)
Angiectasis	2 (4%)	1 (2%)		
Cyst	3 (6%)	4 (8%)		1 (2%)
Fibrosis		1 (2%)		
Hemorrhage, Chronic		1 (2%)		
Pars Distalis, Hyperplasia, Focal	11 (22%)	11 (22%)	10 (20%)	10 (20%)
Pars Intermedia, Hyperplasia, Focal	1 (2%)		1 (2%)	1 (2%)
Thyroid Gland	(49)	(50)	(50)	(50)
Cyst	1 (2%)	1 (2%)	2 (4%)	
Infiltration Cellular, Lymphoid		1 (2%)		

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 FORMAMIDE
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B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Inflammation, Suppurative		2 (4%)		
Inflammation, Granulomatous				1 (2%)
Inflammation, Chronic	1 (2%)	1 (2%)	1 (2%)	
Follicle, Hyperplasia, Focal	14 (29%)	6 (12%)	10 (20%)	5 (10%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(49)	(50)
Duct, Cyst				1 (2%)
Ovary	(50)	(50)	(50)	(49)
Angiectasis	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Cyst	24 (48%)	19 (38%)	11 (22%)	23 (47%)
Mineralization		1 (2%)		
Thrombosis	1 (2%)	1 (2%)	2 (4%)	2 (4%)
Bilateral, Thrombosis	1 (2%)			
Follicle, Atrophy	33 (66%)	29 (58%)	35 (70%)	37 (76%)
Uterus	(50)	(50)	(50)	(50)
Angiectasis		2 (4%)	2 (4%)	1 (2%)
Dilatation				2 (4%)
Inflammation, Suppurative	1 (2%)	1 (2%)		
Inflammation, Chronic Active				1 (2%)
Thrombosis			1 (2%)	
Endometrium, Hyperplasia, Cystic	45 (90%)	48 (96%)	45 (90%)	42 (84%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Atrophy				1 (2%)
Hyperplasia	8 (16%)	10 (20%)	13 (26%)	5 (10%)
Infiltration Cellular, Histiocyte	1 (2%)			
Lymph Node	(8)	(4)	(6)	(5)
Bronchial, Hyperplasia, Lymphoid		1 (25%)		
Iliac, Necrosis		1 (25%)		
Lumbar, Hematopoietic Cell Proliferation	1 (13%)			
Lumbar, Hyperplasia, Lymphoid	1 (13%)			
Mediastinal, Hematopoietic Cell Proliferation	1 (13%)			

a - Number of animals examined microscopically at site and number of animals with lesion

TDMS No. 88123 - 07
 Test Type: CHRONIC
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 Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: RYAN, M. - Blackshear, P.

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B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Mediastinal, Hyperplasia, Lymphoid	2 (25%)			
Mediastinal, Inflammation, Chronic			1 (17%)	
Renal, Hyperplasia, Lymphoid	1 (13%)			
Lymph Node, Mandibular	(49)	(50)	(50)	(50)
Atrophy	3 (6%)	2 (4%)	6 (12%)	4 (8%)
Hematopoietic Cell Proliferation	1 (2%)	1 (2%)		
Hyperplasia, Lymphoid	8 (16%)		5 (10%)	6 (12%)
Necrosis, Lymphoid	1 (2%)		1 (2%)	
Lymph Node, Mesenteric	(50)	(50)	(49)	(50)
Atrophy	7 (14%)	9 (18%)	8 (16%)	7 (14%)
Hematopoietic Cell Proliferation	1 (2%)			
Hyperplasia, Lymphoid	4 (8%)	1 (2%)	4 (8%)	3 (6%)
Infiltration Cellular, Polymorphonuclear			1 (2%)	
Inflammation, Suppurative				1 (2%)
Necrosis, Lymphoid	2 (4%)	1 (2%)	1 (2%)	
Spleen	(50)	(49)	(49)	(50)
Atrophy	1 (2%)	2 (4%)	1 (2%)	2 (4%)
Hematopoietic Cell Proliferation	17 (34%)	17 (35%)	15 (31%)	8 (16%)
Hyperplasia, Lymphoid				3 (6%)
Hyperplasia, Plasma Cell	1 (2%)		1 (2%)	
Lymphoid Follicle, Hyperplasia	3 (6%)	4 (8%)		2 (4%)
Lymphoid Follicle, Necrosis	3 (6%)			1 (2%)
Thymus	(49)	(50)	(49)	(50)
Angiectasis				1 (2%)
Atrophy	16 (33%)	19 (38%)	12 (24%)	17 (34%)
Cyst	7 (14%)	9 (18%)	7 (14%)	
Hyperplasia, Lymphoid	9 (18%)	11 (22%)	7 (14%)	8 (16%)
Necrosis, Lymphoid	1 (2%)	1 (2%)	1 (2%)	
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia, Cystic	1 (2%)	1 (2%)		
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1 (2%)	
Inflammation, Granulomatous			1 (2%)	
Ulcer			2 (4%)	
MUSCULOSKELETAL SYSTEM				

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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 FORMAMIDE
 CAS Number: 75-12-7
 Pathologist: RYAN, M. - Blackshear, P.

Date Report Requested: 05/04/2006
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 Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Bone	(50)	(50)	(50)	(50)
Atrophy				1 (2%)
Hyperostosis	3 (6%)	6 (12%)	3 (6%)	2 (4%)
Skeletal Muscle	(2)	(5)	(5)	(0)
Fibrosis		3 (60%)		
Inflammation, Chronic			1 (20%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Arteriole, Inflammation, Chronic	1 (2%)			
Artery, Meninges, Inflammation, Chronic				1 (2%)
Hypothalamus, Compression	1 (2%)	2 (4%)	1 (2%)	
Meninges, Infiltration Cellular, Lymphocyte	2 (4%)		1 (2%)	
Vein, Infiltration Cellular, Lymphocyte	1 (2%)			
Spinal Cord	(1)	(0)	(0)	(0)
Hemorrhage	1 (100%)			
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation		1 (2%)		
Inflammation, Granulomatous				1 (2%)
Inflammation, Focal, Chronic	1 (2%)			
Inflammation, Chronic	2 (4%)			
Metaplasia, Osseous	1 (2%)		1 (2%)	1 (2%)
Necrosis			1 (2%)	
Alveolar Epithelium, Hyperplasia	2 (4%)	5 (10%)	2 (4%)	
Alveolus, Infiltration Cellular, Histiocyte	1 (2%)	1 (2%)	1 (2%)	3 (6%)
Vein, Thrombosis			2 (4%)	
Nose	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 (2%)		
Inflammation, Chronic	1 (2%)		2 (4%)	
Glands, Hyperplasia	1 (2%)			
Glands, Inflammation, Suppurative			2 (4%)	
Nasolacrimal Duct, Infiltration Cellular,	3 (6%)	1 (2%)	2 (4%)	1 (2%)
Polymorphonuclear				
Olfactory Epithelium, Atrophy, Focal		2 (4%)	1 (2%)	1 (2%)
Respiratory Epithelium, Hyperplasia, Focal	1 (2%)			1 (2%)
Respiratory Epithelium, Necrosis			1 (2%)	

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B6C3F1 MICE FEMALE	0 MG/KG	20 MG/KG	40 MG/KG	80 MG/KG
Vomeroneasal Organ, Infiltration Cellular, Polymorphonuclear Pleura	9 (18%) (0)	11 (22%) (0)	2 (4%) (1)	5 (10%) (0)
SPECIAL SENSES SYSTEM				
Eye	(49)	(50)	(49)	(50)
Degeneration	1 (2%)	1 (2%)		
Cornea, Inflammation, Chronic	1 (2%)			1 (2%)
Retrolbulbar, Inflammation, Chronic	1 (2%)			
Harderian Gland	(49)	(50)	(50)	(50)
Fibrosis				1 (2%)
Hyperplasia, Focal	7 (14%)	4 (8%)	3 (6%)	5 (10%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Hydronephrosis	1 (2%)	1 (2%)		
Hyperplasia, Lymphoid	1 (2%)			
Infarct	2 (4%)	1 (2%)	1 (2%)	
Infiltration Cellular, Lymphoid		1 (2%)		
Metaplasia, Osseous	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Mineralization	6 (12%)	5 (10%)	1 (2%)	3 (6%)
Nephropathy	35 (70%)	23 (46%)	28 (56%)	38 (76%)
Arteriole, Inflammation, Chronic		1 (2%)		
Artery, Inflammation, Chronic	1 (2%)			
Glomerulus, Amyloid Deposition				1 (2%)
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)	2 (4%)		
Renal Tubule, Cyst				1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic				1 (2%)

*** END OF REPORT ***